

## Case study MBR BioFlow

### OEM Partner

Complete MBR waste water treatment plant from food production built by WEHRLE Umwelt GmbH in Germany.

### UF-process

The UF system split biomass from a bioreactor process (MBR) into a clear permeate stream and a concentrate back to the bioreactor.

Application: Biomass separation



Berghof HyperFlux products

### UF configuration

#### UF Membranes/ Modules

Module program	HyperFlux I8
Membrane type	66.03
Membrane material	PVDF
Membrane diameter	8 mm
Cut off	30 nm
Module type	MO 103G 66.03 I8
Membrane area	40 m <sup>2</sup>

#### UF design

Number of trains	6
Modules per train	6
Total membrane area	1440 m <sup>2</sup>
Permeate flow rate	150 m <sup>3</sup> /h
Temperature	30 °C
Permeate flux	110 - 150 l/m <sup>2</sup> .h
Velocity	3.5 m/s

#### UF analysis

##### Feed:

COD	1500 -2000 mg/l
MLSS	12 - 15 g/l

##### Permeate

COD	50 mg/l
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